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(54) PRODUCTION OF NONIONIC DETERGENT GRANULE

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain nonionic detergent granules having a high bulk density and improved flow characteristics of a powder and caking resistance by granulating a detergent material mixture contg. a nonionic surfactant as the main base material under heating and rolling.

SOLUTION: A mixture is prepd. by compounding an org. or inorg. powdery builder which comprises at least one compd. selected from among tripolyphosphates, carbonates, etc., has an average granule size of 500 μ m or lower, and gives an aq. soln. or dispersion of a concn. of 1g/l having a pH of 8 or higher at 20°C and/or a porous alkaline oil-absorbing carrier with a nonionic surfactant which is a polyoxyethylene alkyl ether formed by the addition reaction of, on average, 5-15mol of ethylene oxide to a 10-20C linear or branched prim. or sec. alcohol and/or an acidic precursor of an anionic surfactant capable of

forming a lamella orientation with an aq. soln. of the nonionic surfactant. The mixture is heated to a temp. high enough to enable the neutralization of at least the acidic precursor compounded and then is granulated under rolling, thus giving nonionic detergent granules having a bulk density of 0.6-1.2g/ml.

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